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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,980	01/20/2004	Yeh-Jiun Tung	10052/4102	4015
26646	7590	08/23/2006	EXAMINER	
KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004			NGUYEN, THINH T	
			ART UNIT	PAPER NUMBER
			2818	

DATE MAILED: 08/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/761,980

Applicant(s)

TUNG ET AL.

Examiner

Thinh T. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-31 is/are allowed.
- 6) ☒ Claim(s) 32-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 May 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 5/10/06.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED OFFICE ACTION

1. This is in response to applicant communication on 5/10/2006.
2. Claims 1-35 are pending in the application.

Specification

3. The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant cooperation is requested in correcting any errors of which the applicant may become aware in the specification.
4. The IDS sent in by the applicant on 5/10/2006 has been fully considered and placed in the record.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(a/b/e) that form the basis for the rejections under this section made in this office action.

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claim 32, 33,34 are rejected under 35 U.S.C. 102(e) as being anticipated by Tutt et al. (U.S. Patent 7,052,351).

With regard to claim 32 Tutt discloses an organic light-emitting device (column 1 lines 15-20) comprising an emissive region disposed between and electrically connected to an anode Fig 4 layer 20a column 16 lines 65-66) and a cathode (column 17 line 50-56), wherein the emissive region comprises: a first emissive layer(fig 4 layer 24 or 32 ,column 17 lines10-12, comprising a first host material and a first emissive material, (column 1 lines 32, column 7 line 3-16, fig 3 layer 24, or 32) and a second emissive layer (column 1 line 36 , column 17 line 35-45, fig 3 layer 32 or 26) comprising a second host material and a second emissive material, and a blocking layer (column 2 lines 35-36, fig 3 layer 36) between and in contact with the first emissive layer and the second emissive layer, wherein: the blocking layer is an electron blocking layer or a hole blocking layer, and at least one of the first emissive material or the second emissive material is a phosphorescent (column 7 line 11) emissive material.

With regard to claim 33 and 34, Tutt discloses that the blocking layers can be hole blocking layer (column 2 line 35) or an electron blocking layer (column 18 line 62)

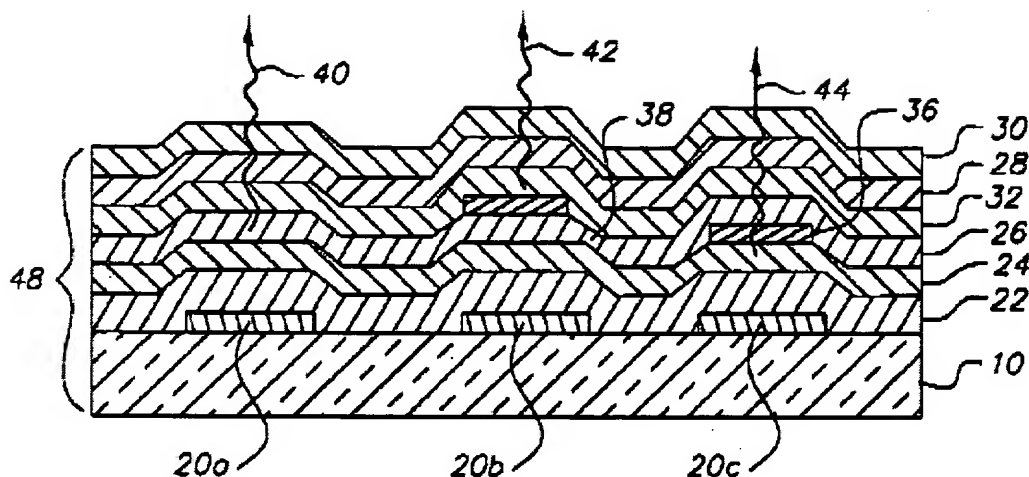


FIG. 4

Claim Rejections - 35 USC § 103

7. The following is a quotation of U.S.C. 103(a) which form the basis for all obviousness rejections set forth in this office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tutt (U.S. patent 7,052,351) in view of Lee et al. (U.S. patent 6,991,858).

With regard to claim 35, as set forth in the rejection of claim 32, Tutt discloses all the invention including a blue phosphorescent emissive material (column 6 lines 57-58, column 7

line 11). Missing in Tutt disclosure is the use of high-energy gap material. Lee, however, discloses the use of high energy gap material (Lee reference column 4 lines 8-12).

It would have been obvious to one of ordinary skill in the art the time the invention was made to incorporate a high band gap material as taught by Lee into the Tutt device and come up with the invention of claim 35.

The rationale is as the following:

A person skilled in the art , at the time the invention was made, would have been motivated to improve the Tutt device in order come up with a superior organic electroluminescent device as taught by Lee (see Lee reference Column 1 line 15-23).

ALLOWABLE SUBJECT MATTER

9. Claims 1-31 are allowed. Claims 1-31 are allowed for the following reasons:

I/ Group I: Claims 1-14 :

Claims 1-14 are allowed because none of the references of record teaches or suggests the claimed **ORGANIC LIGHT EMITTING DEVICE STRUCTURE FOR OBTAINING CHROMATICITY STABILITY** having the limitations:

-- “ the emissive region comprises:

a first emissive layer, comprising a first host material and a first emissive material, and a second emissive layer in physical contact with the first emissive layer and comprising a second host material and a second emissive material, and wherein:

the first emissive layer is nearer to the anode than the second emissive layer, and at least one of the first emissive material or the second emissive material is a phosphorescent emissive material. And the contact between the first emissive layer and the second emissive layer provides an electron injection barrier, a hole injection barrier, or both. "--

and all other limitations in claim 1.

II/ Group II: Claims 15-31:

Claims 15-31 are allowed because none of the references of record teaches or suggests the claimed **ORGANIC LIGHT EMITTING DEVICE STRUCTURE FOR OBTAINING CHROMATICITY STABILITY** having the limitations:

--"a first emissive layer, comprising a first host material and a first emissive material, and a second emissive layer in physical contact with the first emissive layer and comprising a second host material and a second emissive material, wherein the contact between the first emissive layer and the second emissive layer provides an electron injection barrier, a hole injection barrier, or both, the first emissive layer is nearer to the anode than the second emissive layer, at least one of the first emissive material or the second emissive material is a phosphorescent emissive material, and wherein the device emits with CIE x,y-coordinates that vary less than about 0.04 over the luminance of about 1000 cd/m² to about 20,000 cd/m² "--
and all other limitations in claim 15.

10. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and the page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

11. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the day of this letter. Failure to respond within the period for response will cause the application to be abandoned (see M.P.E.P. 710.02(b)).

CONCLUSION

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on Monday-Friday 9:30am-6: 30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached at 571-272-1907.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval [PAIR] system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thinh T. Nguyen

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A handwritten signature in black ink, appearing to read 'Thinh T. Nguyen', is written over a horizontal line.